

A dark blue background with a network diagram of glowing yellow nodes connected by thin blue lines, creating a complex web of connections.

ODIM Community Webinar

Formation Proposal

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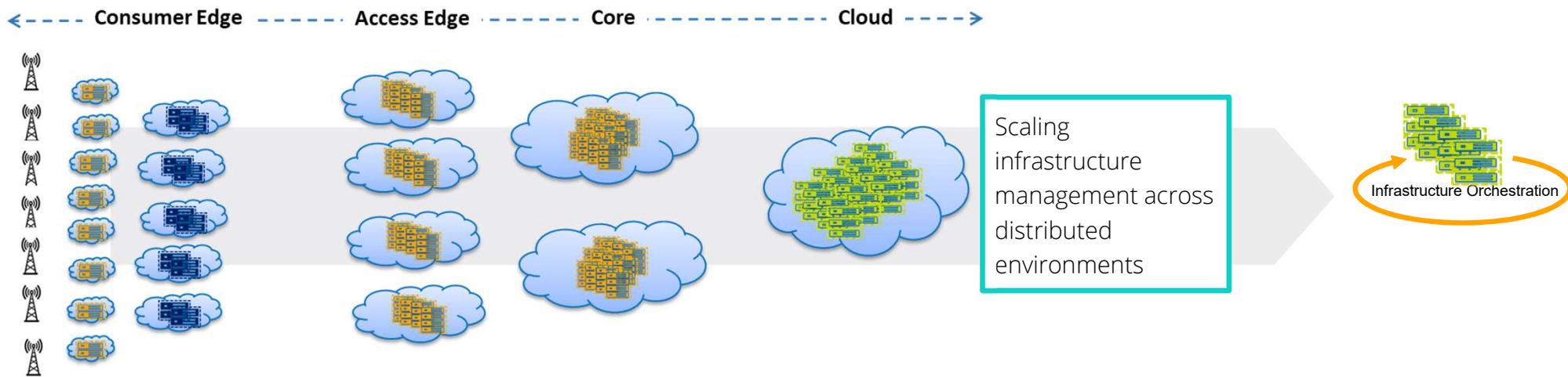
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Motivations & Rationale

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Emergence Of Multi-Edge Computing Environments

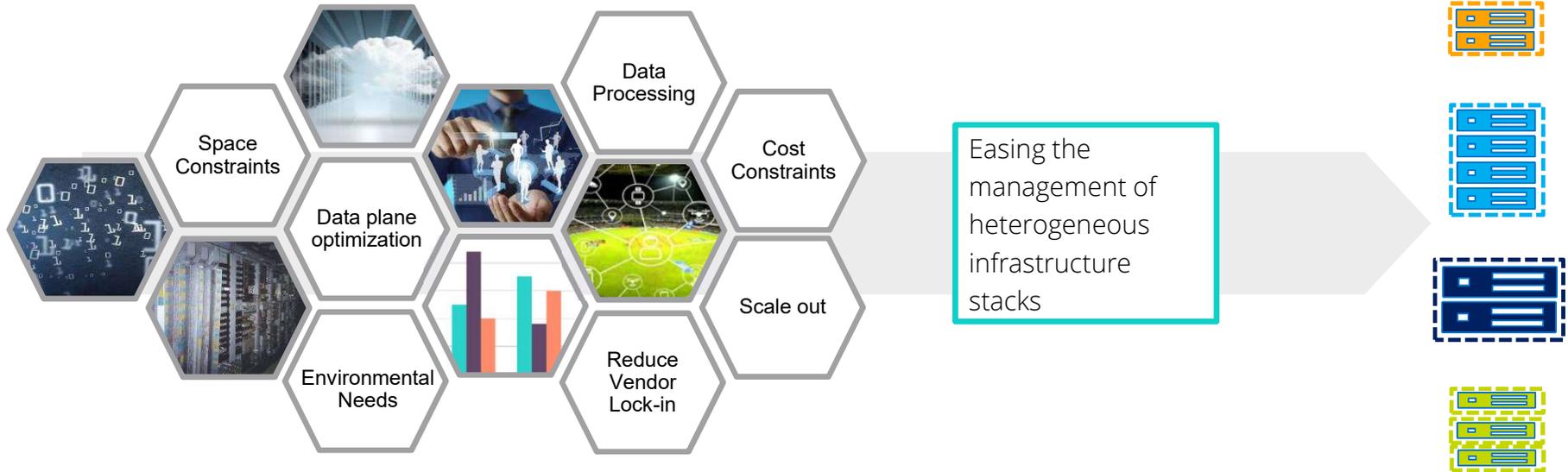


Sources: GSMA Intelligence, ACG Research, 2019

Increasing numbers of distributed data centers as businesses move to the Edge

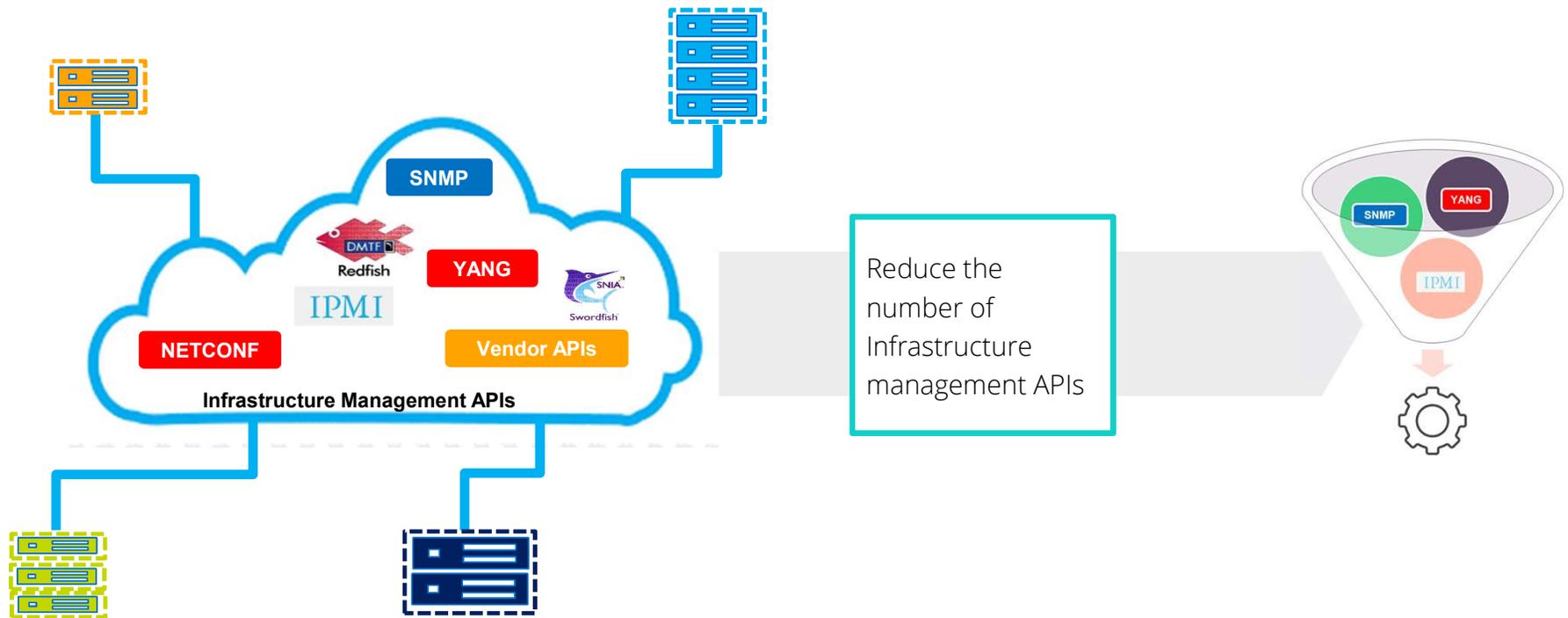
Infrastructure Requirement Diversity

← - - - Consumer Edge - - - Access Edge - - - Core - - - Cloud - - - →



Workload and commercial demands can vary massively per location

Proliferation Of Infrastructure Management APIs

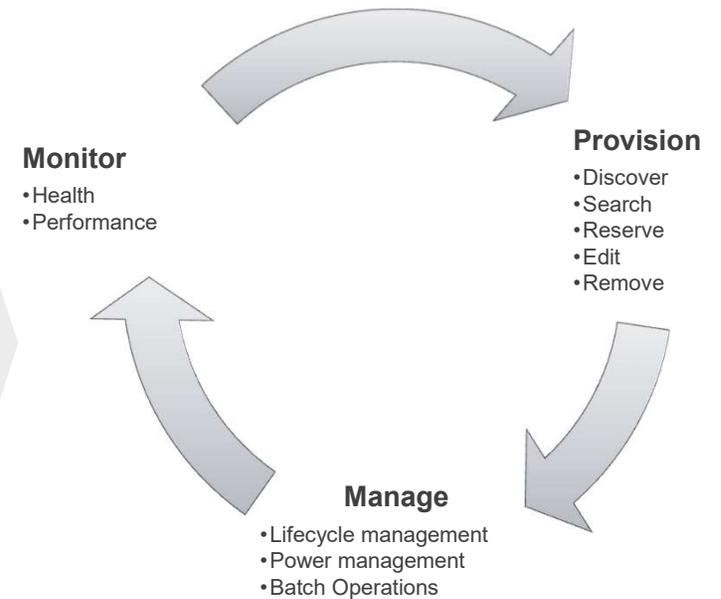


Minimal alignment across compute, storage, networking and vendor implementations

Key Use Cases

Project-wide use case objectives enable:

- Multi-site, multi-vendor physical infrastructure management
- Remote distributed management across multiple deployment locations
- Vendor-neutral discovery of infrastructure resources and their capabilities
- Physical infrastructure closed-loop management automation

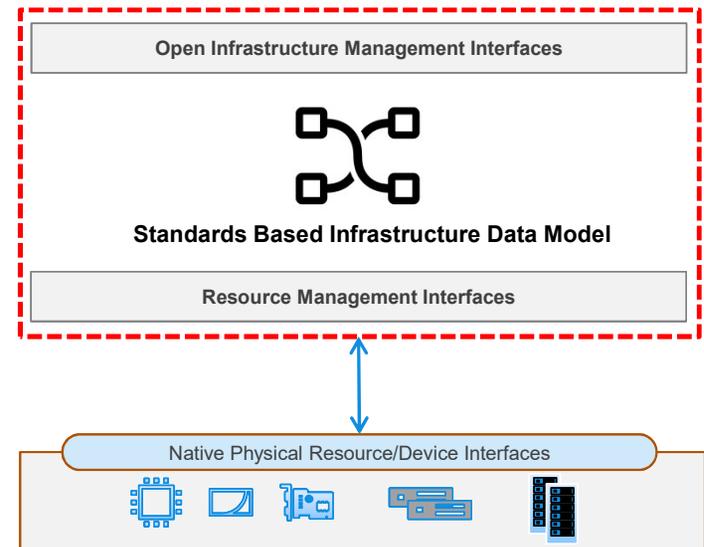


Infrastructure Lifecycle Use Cases

Open Distributed Infrastructure Management (ODIM)

Open Source Mission is to enable:

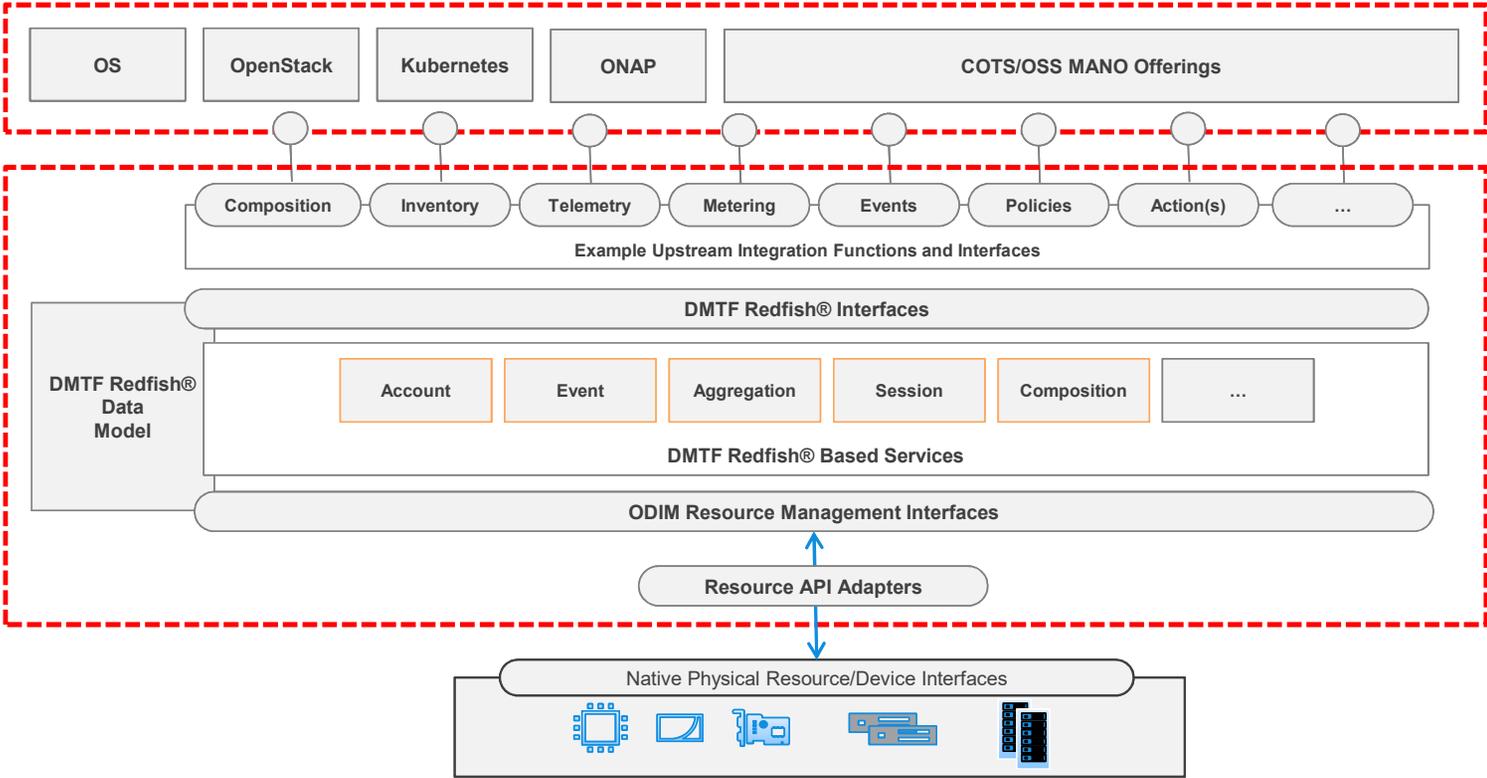
- Definition of data models and interfaces for closed loop management of physical infrastructure resources
- Physical infrastructure management functions
- Decentralized and distributed management



ODIM - A single source of “infrastructure management truth”

Upstream
COTS/OSS
service/resource
MANO stacks

ODIM
Presents consistent
on/off-premises
HWaaS interfaces
for
Physical
Infrastructure
management

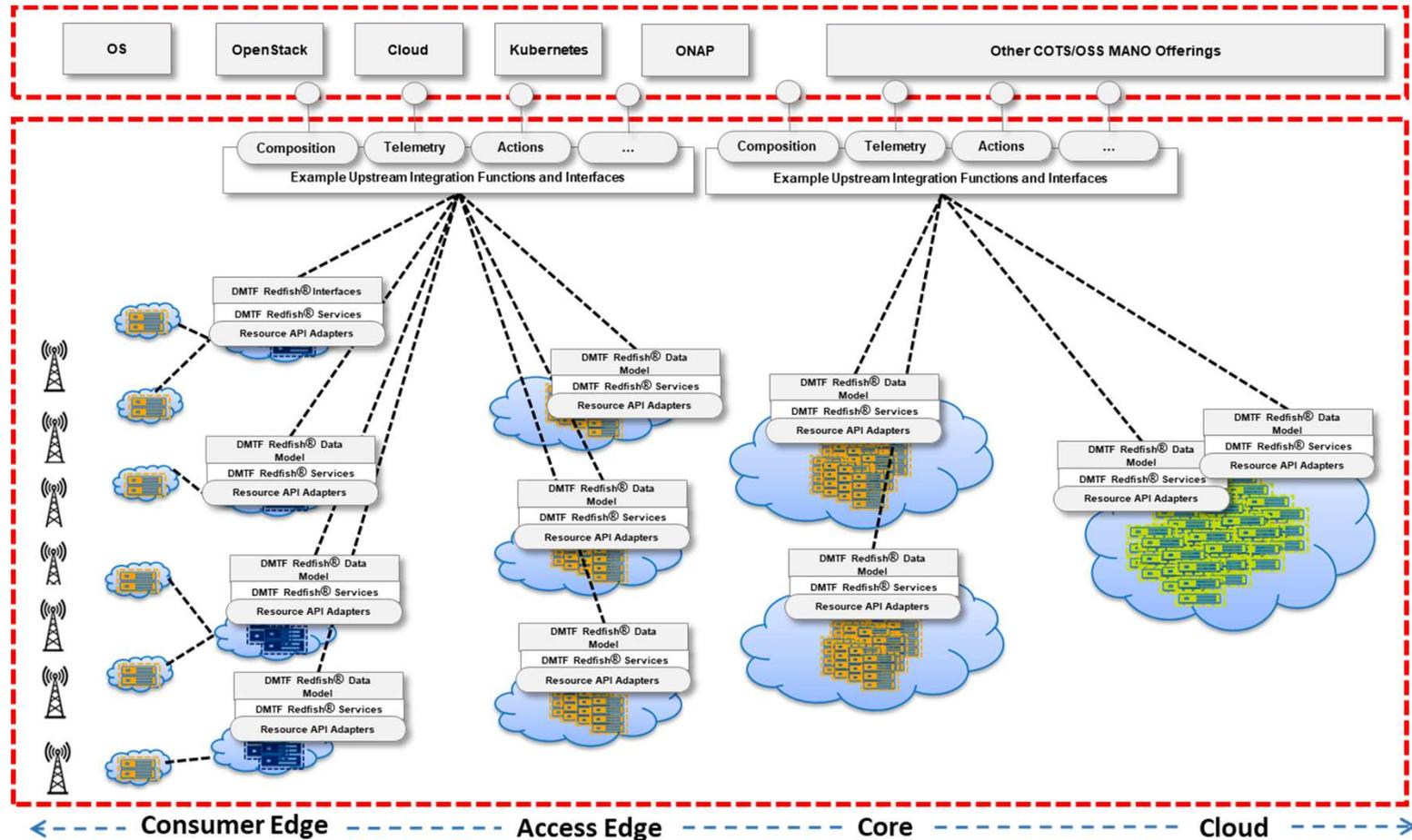


Starting Assumptions

- › DMTF Redfish® APIs and data model are foundational to ODIM
- › DMTF Redfish® data model enables a consistent, aggregated physical view across all ODIM management functions
- › Downstream physical infrastructure resources may not be DMTF Redfish® aligned and the architecture will need to accommodate this
- › ODIM upstream integration APIs don't need to be exposed via DMTF Redfish® bindings
- › Initial focus will be on Compute, Storage, Acceleration and Fabrics

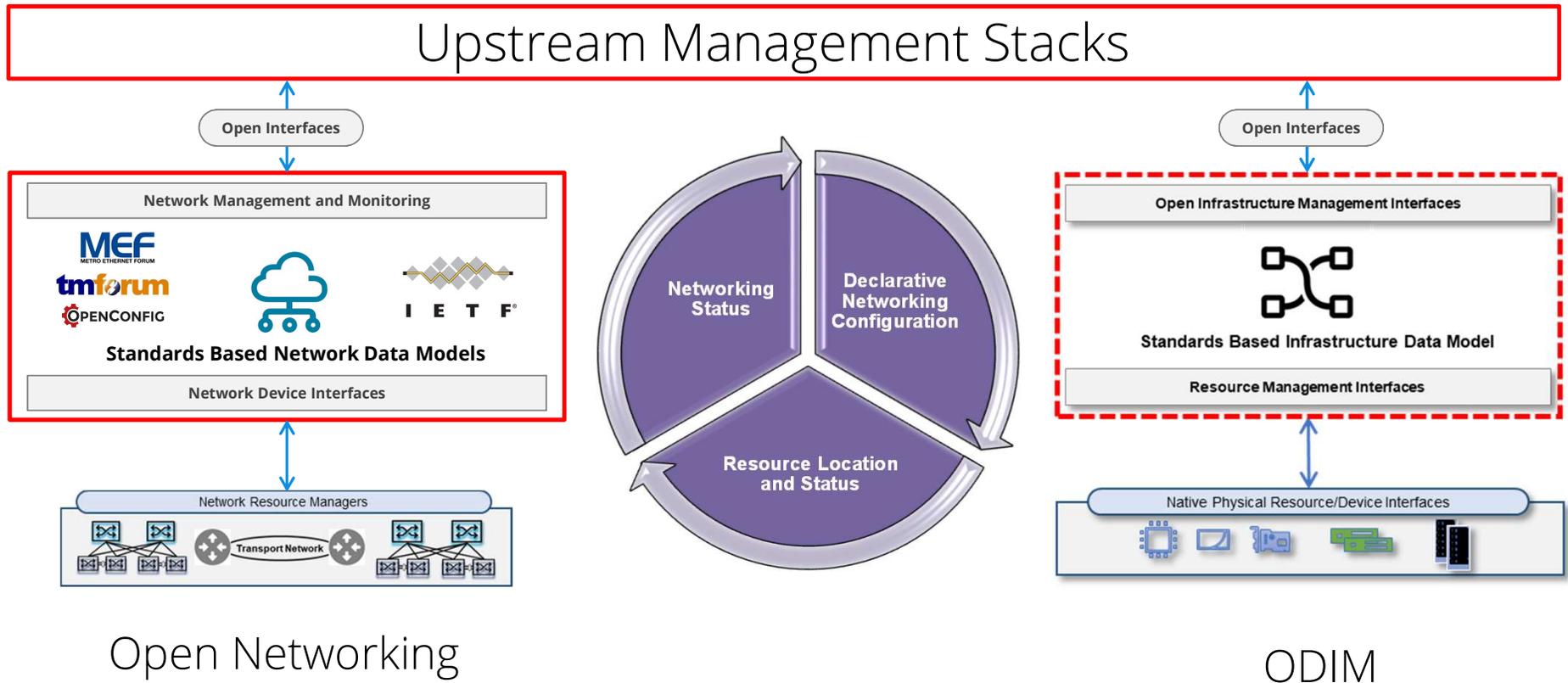
Open Distributed Infrastructure Management

Upstream
COTS/OSS
service/resource
MANO stacks

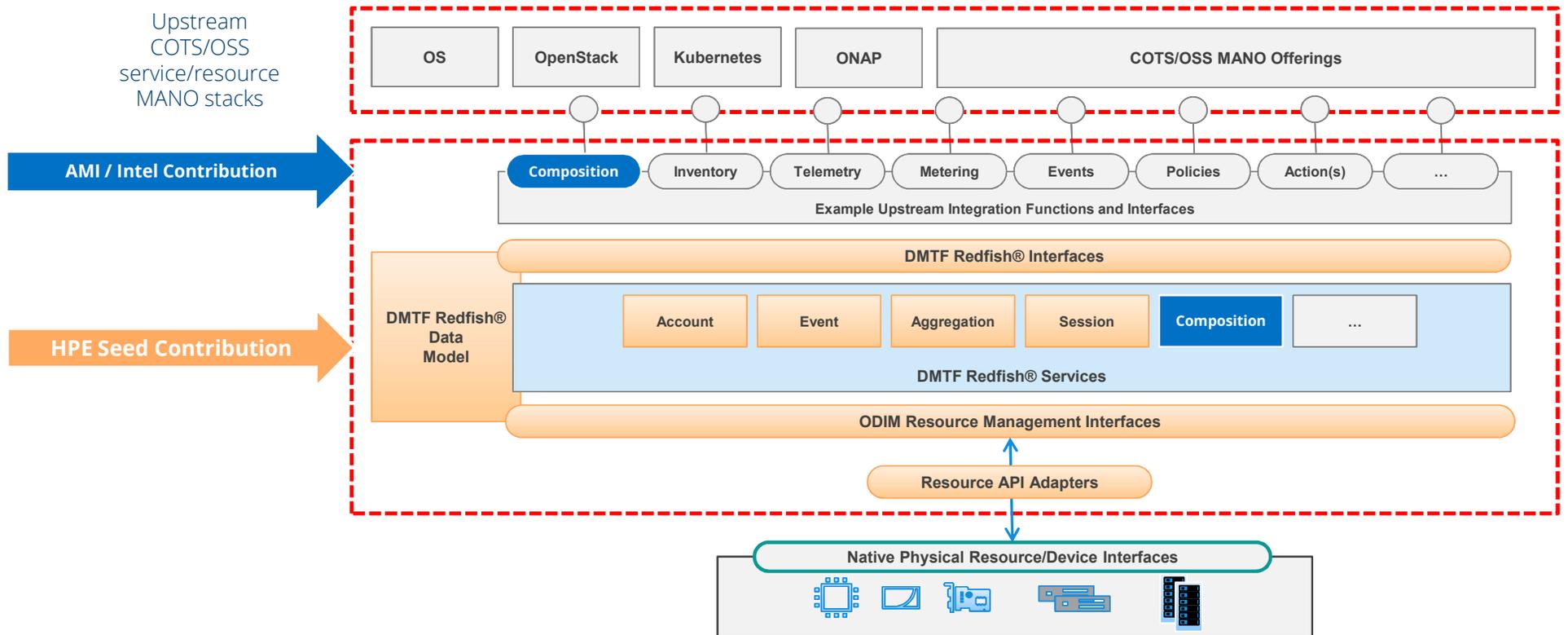


ODIM
Infrastructure
Management
Functions and
interfaces distributed
for open, standards
based scalability

ODIM is Complementary to Networking Standards



Project Seed Code



Formation & Governance

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Formation Logistics

- › An independent **unfunded project** under the Linux Foundation, not part of any LF “umbrella” community.
- › Aligned with other emerging infrastructure related activities
- › Community Open Invitation Webinars June 30 (vendors) & July 8 (End Users+ Open)
- › Once the project has traction, will determine whether to join one of the existing LF umbrella communities or to establish a new one.

ODIM Governance (Proposed)

- › Governance Structure
 - › Technical Steering Committee (TSC)
- › Initially Participating Company Benefits
 - › Guaranteed seats on TSC for the first 4 releases
 - › Opportunity to shape architecture and output/deliverables
 - › Simple Majority Voting for Ratification, other decisions

ODIM Community Participants

ODIM Community



- Communications Services Providers
- Enterprises
- Cloud Service Providers
- Managed Hosting
- TEMs
- IT Vendors
- Orchestration Software Providers

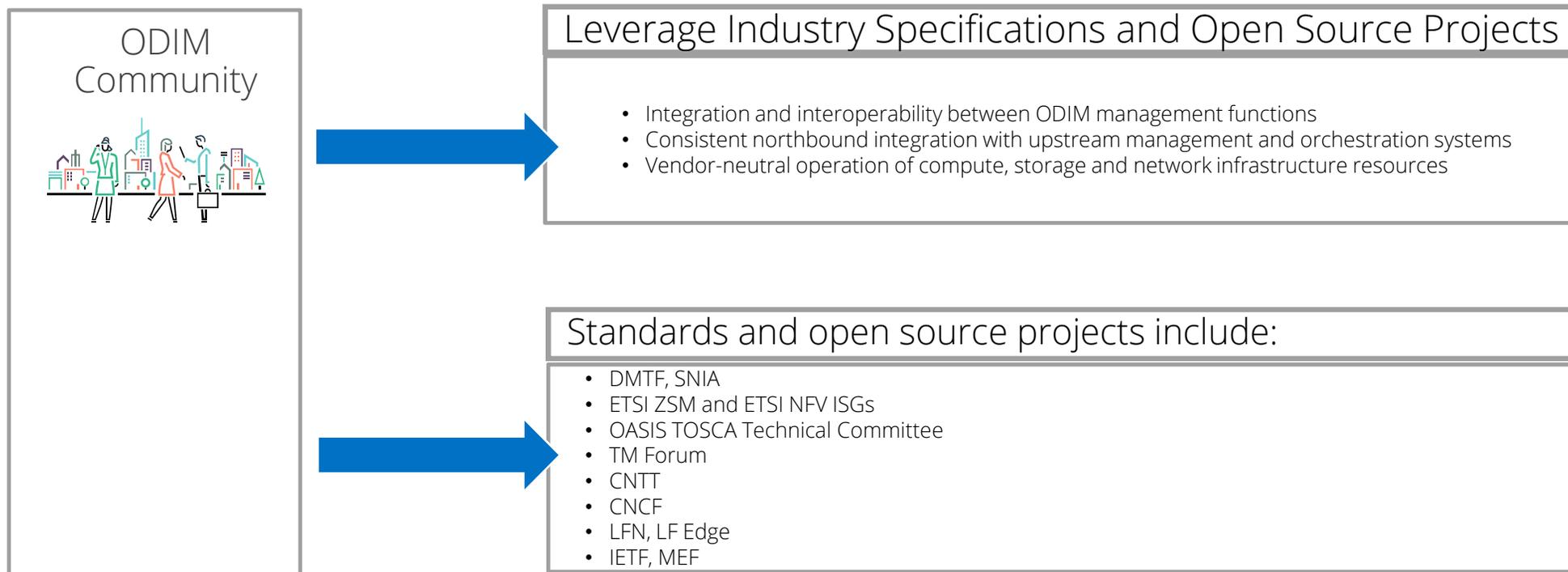


Critical to have a cross section of stakeholders

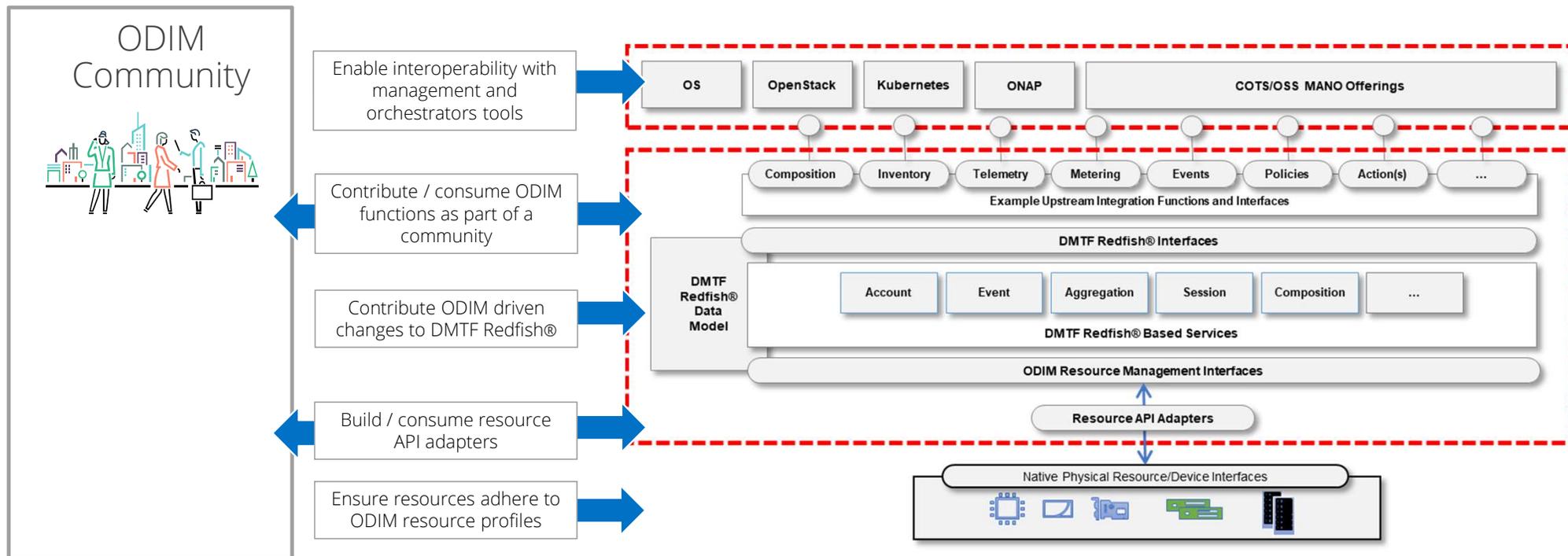
Advantages

- Leveled playing field
- Room for value-add and differentiation
- Influence open standards
- Time to market
- Vendor neutrality
- Easier and more scalable management solutions
- Influencing features

Use Of Industry Standards And Open Source



ODIM Contribution Areas



ODIM Status

- › The project has been created in the LF as a series project on June 11th
- › The target date for the initial participants to meet and form the TSC is July 15th.
- › The target date for aggregation seed code will be contributed by HPE on July 15th.
- › Seed code for composition will be contributed by AMI within three months
- › We invite community and TSC participation.
- › Mailing list: <https://lists.odim.io/g/odim-general>



Q&A

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